

Table 3-3

Results of likelihood ratio test and parameter estimates with their standard errors (in parentheses) for the reduced ($H_0: P_A = P_D$) and generalized ($H_A: P_A \neq P_D$) models (model I in Section 2.8) for chinook salmon passage 48 h survival at two test scenarios at spillbays 2 (no flow deflector) and 4 (flow deflector) of Bonneville Dam, October 1995. Calculations based on ignoring heterogeneity in control trials.

Parameter	Spillbay 4:		$H_0: P_A = P_D$
	Flow Deflector	No Flow Deflector	
S	0.973 (0.0068)		0.9571 (0.0086)
P	0.996 (0.0025)		1.0* (N/A)
τ	1.0		1.0*
90% CI on τ	0.991 - 1.0		0.977 - 1.0
		$H_A: P_A \neq P_D$	
S	0.973 (0.0068)		0.9571 (0.0086)
P_A	1.0* (N/A)		1.0* (N/A)
P_D	1.0* (N/A)		1.0* (N/A)
τ	1.0		1.0
90% CI on τ	0.991 - 1.0		0.977 - 1.0

* Parameter value set to 1.0 when maximum likelihood estimate (MLE) exceeded admissible range.

** Likelihood ratio tests (LRT) of equal recapture probabilities of alive and dead fish could not be rejected ($P > 0.05$) for either scenario. LRT=0 P($\chi^2_{1,0.05} = 3.84$).